

23  
COO A.  
a second nucleic acid molecule having a nucleic acid sequence selected from the group consisting of SEQ ID NOS: 1, 2, 3, 4, 5, 6, 7, 9, 10 and complements thereof.

24  
4  
a substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule comprises a nucleic acid molecule having a nucleic acid sequence selected from the group consisting of SEQ ID NOS: 1, 2, 3, 4, 5, 6, 7, 9, 10 and complements thereof.

25  
5  
9. (Twice amended) The vector according to claim 8, wherein said nucleic acid sequence is a first nucleic acid sequence, and wherein said vector further comprises a second nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 10, wherein said second nucleic acid sequence is not identical to said first nucleic acid sequence.

Please add the following new claims.

19. (New) A substantially purified nucleic acid molecule comprising a nucleic acid sequence of SEQ ID NO: 8.

20. (New) The substantially purified nucleic acid molecule according to claim 19, wherein said nucleic acid molecule comprises a microsatellite sequence.

21. (New) The substantially purified nucleic acid molecule according to claim 19, wherein said nucleic acid molecule comprises a region having a single nucleotide polymorphism.

22. (New) The substantially purified nucleic acid molecule according to claim 19, wherein said nucleic acid molecule further comprises a bacterial ORI site.

23. (New) The substantially purified nucleic acid molecule according to claim 19, wherein said nucleic acid molecule has a promoter or partial promoter region.